

**Executive Editor** Hillary E. Sussman

**Assistant Editor** Laura E. DeMare

## Editors

Aravinda Chakravarti

Evan E. Eichler

Richard A. Gibbs

Eric Green

Richard M. Myers

William J. Pavan

**Administrative Assistant**  
Peggy Calicchia

**Production Manager**  
Linda Sussman

**Production Editor**  
Marie Cotter

**Production Assistant**  
Tara Kulesa

## Editorial Board

**J. Akey** (Univ. of Washington)  
**B. Andersson** (Karolinska Institute)  
**S.E. Antonarakis** (Univ. of Geneva Medical School)  
**B.E. Bernstein** (Broad Institute)  
**W. Bickmore** (Medical Research Council)  
**M. Boehnke** (Univ. of Michigan)  
**M. Brudno** (Univ. of Toronto)  
**M. Bulyk** (Brigham & Women's Hospital and Harvard Medical School)  
**L. Carrel** (Penn State College of Medicine)  
**N.P. Carter** (Wellcome Trust Sanger Institute)  
**G.A. Churchill** (The Jackson Laboratory)  
**B. Cohen** (Washington Univ. in St. Louis School of Medicine)  
**G.M. Cooper** (HudsonAlpha Institute for Biotechnology)  
**G.E. Crawford** (Duke Univ.)  
**A. Di Rienzo** (Univ. of Chicago)  
**M. Dunham** (Univ. of Washington)  
**P.J. Farnham** (Univ. of California, Davis)  
**S. Gabriel** (Broad Institute)  
**M.B. Gerstein** (Yale Univ.)  
**M. Hahn** (Indiana Univ.)  
**I.M. Hall** (Univ. of Virginia)  
**D.B. Jaffe** (Broad Institute)  
**L. Jin** (Fudan University)  
**S. Jones** (BC Cancer Agency)  
**J. Korbel** (European Molecular Biology Laboratory)  
**J.D. Lieb** (Univ. of North Carolina in Chapel Hill)  
**E. Liu** (Genome Institute of Singapore)  
**J.R. Lupski** (Baylor College of Medicine)  
**T.F.C. Mackay** (North Carolina State Univ.)  
**P. Majumder** (Indian Statistical Institute)

**K. Makova** (Pennsylvania State Univ.)  
**E. Mardis** (Washington Univ. in St. Louis School of Medicine)  
**E.H. Margulies** (National Human Genome Research Institute)  
**G.T. Marth** (Boston College)  
**A.S. McCallion** (Johns Hopkins Univ. School of Medicine)  
**M.L. Meyerson** (Dana-Farber Cancer Institute and Harvard Medical School)  
**A. Milosavljevic** (Baylor College of Medicine)  
**R. Mitra** (Washington Univ. in St. Louis School of Medicine)  
**J.V. Moran** (Univ. of Michigan Medical School)  
**M.A. Nobrega** (Univ. of Chicago)  
**J.P. Noonan** (Yale Univ. School of Medicine)  
**J. Parkhill** (The Wellcome Trust Sanger Institute)  
**W.R. Pearson** (Univ. of Virginia)  
**J.H. Postlethwait** (Univ. of Oregon)  
**O. Rando** (Univ. of Massachusetts Medical School)  
**A. Regev** (Broad Institute)  
**D.A. Relman** (Stanford Univ.)  
**J. Rogers** (Baylor College of Medicine)  
**S.L. Salzberg** (Johns Hopkins Univ. School of Medicine)  
**P.C. Scacheri** (Case Western Reserve Univ.)  
**E. Segal** (Weizmann Institute)  
**J. Shendure** (Univ. of Washington)  
**J.A. Stamatoyannopoulos** (Univ. of Washington)  
**M.R. Stratton** (Wellcome Trust Sanger Institute)  
**S. Tishkoff** (Univ. of Pennsylvania)  
**A.J.M. Walhout** (Univ. of Massachusetts Medical School)  
**S.T. Warren** (Emory Univ. School of Medicine)  
**D.A. Wheeler** (Baylor College of Medicine)  
**K. Wolfe** (University College, Dublin)  
**K. Zhao** (National Heart, Lung, and Blood Institute)

**Genome Research** (ISSN 1088-9051) is published monthly by Cold Spring Harbor Laboratory Press, 500 Sunnyside Blvd., Woodbury, NY 11797-2924. Periodicals paid at Woodbury, NY and additional mailing offices. Canada Post International Publications Mail Product (Canadian distribution) Sales Agreement No. 1321846. POSTMASTER: Send address changes to Cold Spring Harbor Laboratory Press, 500 Sunnyside Boulevard, Woodbury, NY 11797-2924.

**Subscriptions:** Kathleen Cirone, Subscription Manager. Individual subscribers have a choice of "online only" or "print + online" subscriptions for this journal. Online only: \$85; Print + Online: U.S., \$135; Canada and Mexico, \$220; R.O.W., \$250 (includes airlift). For 2014 institutional pricing, visit <http://genome.org/site/subscriptions/cost.dtl>. Orders may be sent to Cold Spring Harbor Laboratory Press, Fulfillment Department, 500 Sunnyside Boulevard, Woodbury, New York 11797-2924. Telephone: Continental U.S. and Canada 1-800-843-4388; all other locations 516-422-4100. Fax 516-422-4097. Personal subscriptions must be prepaid by personal check, credit card, or money order. Claims for missing issues must be received within four months of issue date.

**Advertising:** Marcie Siconolfi, Advertising Manager, Cold Spring Harbor Laboratory Press, 1 Bungtown Rd., Cold Spring Harbor, New York 11724-2203. Phone: 516-422-4010; fax: 516-422-4092.

**Information for Contributors:** Author instructions are available at our website, <http://www.genome.org>.

**Online Manuscript Submission:** <http://submit.genome.org>.

**Copyright Information:** Authors of articles published in *Genome Research* retain copyright of the articles (except US Government employees) but grant Cold Spring Harbor Laboratory Press exclusive right to publish the articles for a period of six months following full-issue publication. This includes the rights to publish, reproduce, distribute, display, and store the article in all formats; to translate the article into other languages; to create adaptations, summaries, extracts, or derivations of the article; and to license others to do any or all of the above. Authors can reuse their articles in their work as long as *Genome Research* is credited as the place of original publication. Six months following publication, these articles are made available under a CC-BY-NC 4.0 Creative Commons license. Articles that carry the Open Access designation are available immediately under a CC-BY 4.0 or CC-BY-NC 4.0 Creative Commons license. Detailed copyright terms are online at <http://genome.cshlp.org/site/misc/terms.xhtml>. Permission information is online at [http://genome.cshlp.org/site/misc/permissions\\_landing.xhtml](http://genome.cshlp.org/site/misc/permissions_landing.xhtml). Copyright © 2014 by Cold Spring Harbor Laboratory Press